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**(54) VIDEO AUDIO SIGNAL RECORDER AND TELEVISION RECEIVER**

(57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a video audio signal recorder in which video reservation is simply conducted by allowing the user to check a broadcast program and to have only to state the reservation of the next program.

**SOLUTION:** For this television receiver, in the case that a video audio signal recording section 103 records a video audio signal of a television broadcast received by a television broadcast reception section 102 is recorded on a recording medium 109, a program list acquisition section 107 acquires a program list for each prescribed period and stores it to a program list storage section 108, programs are automatically reserved for video recording based on the program list stored in the program list storage section 108, in response to the video recording reservation setting information received from an input section 106. Based on current time information given from a clock section 105 and a program list stored in the program list storage section 108, a control section 104 controls the television broadcast reception section 102 and the video audio signal recording section 103, so as to extract the reserved program and record it on the recording medium 109.

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## CLAIMS

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[Claim(s)]

[Claim 1] A receiving means to receive television broadcasting, and a record means to record the image sound signal of the television broadcasting received by the above-mentioned receiving means on a record medium, A race card acquisition means to acquire a race card for every fixed period, and a race card storage means to memorize the race card acquired with the above-mentioned race card acquisition means, It has a clock means to output current time information, the control means which controls the above-mentioned receiving means and a record means, and an input means for inputting setting-out information into the above-mentioned control means. The above-mentioned control means According to the image transcription reservation setting-out information that it was inputted by the above-mentioned input means, image transcription reservation is automatically carried out using the race card memorized by the above-mentioned race card storage means. The image sound signal recording device characterized by controlling the above-mentioned receiving means and a record means to extract the program by which image transcription reservation was carried out based on the race card memorized by the current time information and the above-mentioned race card storage means which are given by the above-mentioned clock means, and to record on a record medium.

[Claim 2] The above-mentioned control means is an image sound signal recording device according to claim 1 characterized by extracting the broadcast time of the next time of the program, and carrying out image transcription reservation of the program automatically from the new race card memorized by the above-mentioned race card storage means when the image transcription based on image transcription reservation of a certain program is completed.

[Claim 3] The above-mentioned control means is an image sound signal recording

device according to claim 2 characterized by carrying out image transcription reservation of the program of the next week of the same time amount automatically by the same channel when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 4] The above-mentioned control means is the image sound signal recording device according to claim 2 carry out correcting the content of temporary image transcription reservation of the program to a right thing based on a new race card when performing image transcription reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary image transcription reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means as the description.

[Claim 5] The above-mentioned control means is an image sound signal recording device according to claim 4 characterized by carrying out image transcription reservation of the program of the next week of the same time amount automatically by the same channel when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 6] The image sound signal recording device according to claim 2 carried out [ extracting the broadcast time of the next time of the program, and carrying out image transcription reservation of the program automatically from the race card of next week memorized by the above-mentioned race card storage means, when a race card is acquired with the above-mentioned race card acquisition means weekly, it memorizes for the above-mentioned race card storage means and the image transcription based on image transcription reservation of a certain program is completed by the above-mentioned control means, and ] as the description.

[Claim 7] The above-mentioned control means is an image sound signal recording device according to claim 6 characterized by carrying out image transcription reservation of the program of the next week of the same time amount automatically by the same channel when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 8] The above-mentioned control means is the image sound signal recording device according to claim 6 carry out correcting the content of temporary image transcription reservation of the program to a right thing based on a new race card when performing image transcription reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary image transcription reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means as the description.

[Claim 9] The above-mentioned control means is an image sound signal recording device according to claim 8 characterized by carrying out image transcription reservation of the program of the next week of the same time amount automatically by the same channel when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 10] A receiving means to receive television broadcasting, and an output means to output the image sound signal of the television broadcasting received by the above-mentioned receiving means, A race card acquisition means to acquire a race card for every fixed period, and a race card storage means to memorize the race card acquired with the above-mentioned race card acquisition means, It has a clock means to output current time information, the control means which controls the above-mentioned receiving means, and an input means for inputting setting-out information into the above-mentioned control means. The above-mentioned control means According to the program reservation setting-out information that it was inputted by the above-mentioned input means, program reservation is automatically carried out using the race card memorized by the above-mentioned race card storage means. The television receiving set characterized by controlling the above-mentioned receiving means and an output means to extract a reservation program and to output the image sound signal of a reservation program from an output means based on the race card memorized by the current time information and the above-mentioned race card storage means which are given by the above-mentioned clock means.

[Claim 11] The above-mentioned control means is a television receiving set according to claim 10 characterized by extracting the broadcast time of the next time of the program, and carrying out program reservation of the program automatically from the new race card memorized by the above-mentioned race card storage means when a certain reservation program is completed.

[Claim 12] The above-mentioned control means is a television receiving set according to claim 11 characterized by carrying out program reservation of the program of the next week of the same time amount automatically by the same channel when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 13] The above-mentioned control means is a television receiving set according to claim 11 characterized by correcting the content of temporary program reservation of the program to a right thing based on a new race card when performing program reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary program reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means.

[Claim 14] The above-mentioned control means is a television receiving set according

to claim 13 characterized by carrying out program reservation of the program of the next week of the same time amount automatically by the same channel when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 15] The television receiving set according to claim 11 characterized by extracting the broadcast time of the next time of the program, and carrying out program reservation of the program automatically from the race card of next week memorized by the above-mentioned race card storage means when a race card is acquired with the above-mentioned race card acquisition means weekly, it memorizes for the above-mentioned race card storage means and a certain reservation program is completed by the above-mentioned control means.

[Claim 16] The above-mentioned control means is a television receiving set according to claim 15 characterized by carrying out program reservation of the program of the next week of the same time amount automatically by the same channel when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

[Claim 17] The above-mentioned control means is a television receiving set according to claim 15 characterized by correcting the content of temporary program reservation of the program to a right thing based on a new race card when performing program reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary program reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means.

[Claim 18] The above-mentioned control means is a television receiving set according to claim 17 characterized by carrying out program reservation of the program of the next week of the same time amount automatically by the same channel when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means.

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## DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] It is related with the television receiving set which has the program reservation function which displays the channel specified as the image sound signal recording apparatus which has the image transcription reservation function to make the channel specified as the time amount specified beforehand record on

videotape, and the time amount specified beforehand.

[0002]

[Description of the Prior Art] Image transcription reservation and program reservation (1) in the video tape recorder (VTR) and television receiver which were conventionally equipped with the timer reservation function It goes into timer reservation mode.

[0003] (2) Set the week and day of the week of initiation.

[0004] (3) Set the time of initiation.

[0005] (4) Set the part of initiation.

[0006] (5) Set the time of termination.

[0007] (6) Set the part of termination.

[0008] (7) Set a reservation channel.

[0009] (8) Perform timer reservation.

[0010] It was performed by \*\* (1) thru/or the process procedure of (8). And using the rise switch and the down switch, one digit was made to fluctuate at a time, or input units, such as a ten key switch and a bar code, were used for the set of the numeric value in the above (2) thru/or (7) processes. Moreover, when reserving the program broadcast at every day or the time of day same every week, he was trying to repeat and use the reservation information on the program by declaring the purport reserved each time.

[0011]

[Problem(s) to be Solved by the Invention] By the way, conventionally, the user needed to look at the race card etc. for the image transcription reservation and program reservation in a video tape recorder (VTR) and a television receiver equipped with the timer reservation function, and needed to input information required for setting out into them.

[0012] The object of this invention is to offer the image sound signal recording device which watches the program it was broadcast that a user was, only performs actuation of declaring the purport which reserves the next time of the program, and can perform image transcription reservation easily.

[0013] Other objects of this invention acquire a race card periodically, memorize, and are to offer the image sound signal recording device which can perform image transcription reservation of a program automatically based on the memorized race card.

[0014] Moreover, other objects of this invention acquire a race card periodically, memorize, and are to offer the image sound signal recording device which can perform image transcription reservation of a continuation program automatically based on the memorized race card.

[0015] Moreover, other objects of this invention are to offer the image sound signal recording device which can continue image transcription reservation of a continuation program, also when a race card cannot be acquired periodically.

[0016] Furthermore, other objects of this invention are to offer the image sound

signal recording device which can fulfill image transcription reservation of a continuation program from the content of right reservation, also when a race card is not able to be acquired periodically.

[0017] The object of this invention is to offer the television receiving set which watches the program it was broadcast that a user was, only performs actuation of declaring the purport which reserves the next time of the program, and can perform program reservation easily.

[0018] Other objects of this invention acquire a race card periodically, memorize, and are to offer the television receiving set which can perform program reservation of a program automatically based on the memorized race card.

[0019] Moreover, other objects of this invention acquire a race card periodically, memorize, and are to offer the television receiving set which can perform program reservation of a continuation program automatically based on the memorized race card.

[0020] Moreover, other objects of this invention are to offer the television receiving set which can continue program reservation of a continuation program, also when a race card cannot be acquired periodically.

[0021] Furthermore, other objects of this invention are to offer the television receiving set which can fulfill program reservation of a continuation program from the content of right reservation, also when a race card is not able to be acquired periodically.

[0022]

[Means for Solving the Problem] It has the control means control a receiving means and a record means to extract the program by which the image sound signal recording device concerning this invention carried out image transcription reservation automatically using the race card memorized by the race-card storage means according to the image transcription reservation setting-out information were inputted by the input means, and image transcription reservation was carried out based on the race card memorized by the current-time information and the above-mentioned race-card storage means which are given by the clock means, and to record to a record medium.

[0023] In the image sound signal recording apparatus concerning this invention, it hits recording on a record medium with a record means in the image sound signal of the television broadcasting received by the receiving means. Acquire a race card for every fixed period with a race card acquisition means, and it memorizes for the race card storage means. According to the image transcription reservation setting-out information that it was inputted by the input means, program reservation is automatically carried out using the race card memorized by the above-mentioned race card storage means. The above-mentioned receiving means and a record means are controlled by the control means to extract the program by which image transcription reservation was carried out based on the race card memorized by the

current time information and the above-mentioned race card storage means which are given by the clock means, and to record on the above-mentioned record medium.

[0024] Moreover, in the image sound signal recording device concerning this invention, when the image transcription based on image transcription reservation of a certain program is completed by the above-mentioned control means, from the new race card memorized by the above-mentioned race card storage means, the broadcast time of the next time of the program is extracted, and image transcription reservation of the program is carried out automatically, for example.

[0025] Moreover, when a race card is acquired with the above-mentioned race card acquisition means weekly, it memorizes for the above-mentioned race card storage means in the image sound signal recording device concerning this invention, for example and the image transcription based on image transcription reservation of a certain program is completed by the above-mentioned control means, from the race card of next week memorized by the above-mentioned race card storage means, the broadcast time of the next time of the program is extracted, and image transcription reservation is automatically carried out in the program.

[0026] Moreover, at the image sound signal recording device concerning this invention, by the above-mentioned control means, when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means, image transcription reservation of the program of the next week of the same time amount is automatically carried out by the same channel, for example.

[0027] Moreover, with the image sound signal recording device concerning this invention, by the above-mentioned control means, when performing image transcription reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary image transcription reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means, based on a new race card, the content of temporary image transcription reservation of the program is corrected to a right thing, for example.

[0028] The television receiving set concerning this invention carries out program reservation automatically using the race card memorized by the race-card storage means according to the program reservation setting-out information were inputted by the input means, and it has the control means control the above-mentioned receiving means and an output means to extract a reservation program and to output the image sound signal of a reservation program from an output means based on the race card memorized by the current-time information and the above-mentioned race-card storage means which are given by the above-mentioned clock means.

[0029] In a receiving means receiving and outputting the image sound signal of television broadcasting from an output means in the television receiving set

concerning this invention Acquire a race card for every fixed period with a race card acquisition means, and it memorizes for the race card storage means. According to the program reservation setting-out information that it was inputted by the input means, program reservation is automatically carried out using the race card memorized by the account race card storage means. The above-mentioned receiving means and an output means are controlled by the control means to extract and output the program by which program reservation was carried out based on the race card memorized by the current time information and the above-mentioned race card storage means which are given by the clock means.

[0030] Moreover, in the television receiving set concerning this invention, when a certain reservation program is completed by the above-mentioned control means, from the new race card memorized by the above-mentioned race card storage means, the broadcast time of the next time of the program is extracted, and program reservation of the program is carried out automatically, for example.

[0031] Moreover, in the television receiving set concerning this invention, when a race card is acquired with the above-mentioned race card acquisition means weekly, it memorizes for the above-mentioned race card storage means for example, and a certain reservation program is completed by the above-mentioned control means, from the race card of next week memorized by the above-mentioned race card storage means, the broadcast time of the next time of the program is extracted, and program reservation of the program is carried out automatically.

[0032] Moreover, at the television receiving set concerning this invention, by the above-mentioned control means, when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means, program reservation of the program of the next week of the same time amount is automatically carried out by the same channel.

[0033] Furthermore, in the television receiving set concerning this invention, by the above-mentioned control means, when performing program reservation of a certain program automatically, and a new race card cannot be acquired with the above-mentioned race card acquisition means, the broadcast time of the next time of the program is predicted, temporary program reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means, based on a new race card, the content of temporary program reservation of the program is corrected to a right thing.

[0034]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained to a detail with reference to a drawing.

[0035] Drawing 1 is the block diagram showing an example for the configuration of the image sound signal recording apparatus which applied this invention.

[0036] The image sound signal recording device 100 shown in this drawing 1 With the television broadcasting receive section 102 which receives television broadcasting

through an antenna 101 The Records Department 103 connected to this television broadcasting receive section 102, and the control section 104 which controls the above-mentioned television broadcasting receive section 102 and the Records Department 103, It consists of the clock section 105 which gives current time information to the above-mentioned control section 104, the input section 106 which gives user setting-out information to the above-mentioned control section 104, the race card acquisition section 107 which acquires a race card weekly, and the race card storage section 108 which memorizes the program information given to the above-mentioned control section 104.

[0037] In this image sound signal recording apparatus 100, based on the control instruction from a control section 104, the television broadcasting receive section 102 receives television broadcasting through an antenna 101, and restores to them and amplifies the target video signal and target sound signal of television broadcasting.

[0038] Moreover, the Records Department 103 records the video signal and sound signal which are supplied from the above-mentioned television broadcasting receive section 102 on a record medium 109 based on the control instruction from a control section 104.

[0039] On the other hand, the race card acquisition section 107 acquires a race card weekly. As an approach of acquiring a race card in this race card acquisition section 107 weekly Although there is the approach of acquiring by superimposing and transmitting the approach and program information which access the server which has the information on a program using networks, such as the approach of acquiring from external electronic media, such as CDROM, or the Internet, and are acquired to a television signal, and decoding it etc. In order that it can be decided that a program will be a meaning and it may carry out image transcription reservation, as long as it is sufficient information, i.e., the identifier of a program, start time, end time, and the approach of acquiring a broadcast channel, you may be what kind of other approaches.

[0040] Moreover, the race card storage section 108 memorizes the program information on the race card supplied from the above-mentioned race card acquisition section 107. Moreover, this race card storage section 108 supplies program information to the above-mentioned control section 104 with the instruction from a control section 104.

[0041] And a control section 104 consists of a microcomputer and it responds to the image transcription reservation setting-out information that it is inputted from the input section 106. Image transcription reservation is automatically carried out using the race card memorized by the above-mentioned race card storage section 108. It has the image transcription reservation function which controls the above-mentioned television broadcasting receive section 102 and the Records Department 103 to extract the program by which image transcription reservation was carried out based on the program information memorized by the current time information and the above-mentioned race card storage section 108 which are given by the clock section

105, and to record on a record medium 109.

[0042] In such an image sound signal recording device 100 of a configuration The program information on the race card acquired by the race card acquisition section 107 weekly is memorized in the race card storage section 108. By the control section 104 According to the image transcription reservation setting-out information that it is inputted from the input section 106, the program by which image transcription reservation was carried out based on the program information memorized by the current time information and the above-mentioned race card storage section 108 which are given by the clock section 105 is extracted. The above-mentioned television broadcasting receive section 102 and the Records Department 103 are controlled to receive the television broadcasting of a program by which image transcription reservation was carried out, and to record on a record medium 109.

[0043] Moreover, the information on the program which should carry out continuation image transcription reservation is given to a control section 104 when a viewer operates the input section 106. Thereby, when the image transcription based on image transcription reservation of a certain program is completed, from the new race card memorized by the above-mentioned race card storage section 108, a control section 104 extracts the broadcast time of the next time of the program, and carries out image transcription reservation of the program automatically. Namely, if the above-mentioned continuation image transcription reservation is set up, a control section 104 will repeat image transcription reservation of the program, and will perform it until it becomes impossible to extract the image transcription reservation information on the next time of the program which should carry out continuation image transcription reservation based on the program information memorized by the race card storage section 108.

[0044] Thus, in this image sound signal recording device 100, by the above-mentioned control section 104, when execution of image transcription reservation of a certain program is completed, the image transcription reservation information on the next time of that program can be extracted from the race card of next week, image transcription reservation of that program can be carried out, and image transcription reservation (this image transcription reservation is hereafter called continuation image transcription reservation) is continuously carried out one after another in the continuation program broadcast weekly.

[0045] Although a key boat, a remote controller, etc. are used, if it is a means to input a viewer's volition, as the above-mentioned input section 106 here, it cannot be overemphasized that what kind of other means may be used.

[0046] Next, drawing 2 is the block diagram showing an example for the configuration of the television receiving set which applied this invention.

[0047] The television receiving set 200 shown in this drawing 2 With the television broadcasting receive section 202 which receives television broadcasting through an antenna 201 The image sound signal output section 203 connected to this television

broadcasting receive section 202, The control section 204 which controls the above-mentioned television broadcasting receive section 202, and the clock section 205 which gives current time information to the above-mentioned control section 204 and the input section 206 which gives user setting-out information to the above-mentioned control section 204, It consists of the race card acquisition section 207 which acquires a race card weekly, and the race card storage section 208 which memorizes the program information given to the above-mentioned control section 204. [0048] That is, this television receiving set 200 has composition which transposed the image sound signal Records Department 103 and the record medium 109 in the above-mentioned image sound signal recording device 100 to the image sound signal output section 203. The above-mentioned image sound signal output section 203 outputs the video signal and sound signal of television broadcasting to have been got by the television broadcasting receive section 202, and consists of a video monitor equipped with sound signal output units, such as a loudspeaker.

[0049] Since components other than image sound signal output section 203 which is in this television receiving set 200 are the same as the above-mentioned image sound signal recording device 100, that detailed explanation is omitted.

[0050] In such a television receiving set 200 of a configuration The program information on the race card acquired by the race card acquisition section 207 weekly is memorized to the race card storage 208. By the control section 204 According to the program reservation setting-out information that it is inputted from the input section 206, the program by which program reservation was carried out is extracted based on the program information memorized by the current time information and the above-mentioned race card storage section 208 which are given by the clock section 205. The above-mentioned television broadcasting receive section 202 is controlled to receive the television broadcasting of a program by which program reservation was carried out. And with this television receiving set 200, by the control section 204, when execution of program reservation of a certain program is completed, the program reservation information on the next time of that program is extracted from the race card of next week, and program reservation (this program reservation is hereafter called continuation program reservation) is continuously performed for the continuation program broadcast weekly one after another by carrying out program reservation of that program.

[0051] The information on the program which should carry out continuation program reservation is given to a control section 204 when a viewer operates the input section 206. Thereby, when a certain program based on program reservation is completed, from the new race card memorized by the above-mentioned race card storage 208, a control section 204 extracts the broadcast time of the next time of the program, and carries out program reservation of the program automatically. Namely, if the above-mentioned continuation program reservation is set up, a control section 204 will repeat program reservation of the program, and will perform it until it becomes

impossible to extract the program reservation information on the next time of the program which should carry out continuation program reservation based on the program information memorized by the race card storage 208.

[0052] Hereafter, the thing of the image transcription reservation in the above-mentioned image sound signal recording apparatus 100 or the program reservation in the television receiving set 200 is only called reservation. Moreover, the thing of the program of the next week of the same time amount as a certain program and the same channel is called this program of next week. Furthermore, when execution of reservation of a certain program is completed, from the race card of next week, the next time of the program is extracted and it is called continuation reservation to reserve continuously the continuation program broadcast weekly one after another by reserving the program.

[0053] And program information, such as broadcast start time of the next program and end time, is extracted for the program broadcast weekly from a race card acquirable weekly. In the continuation program reservation function and the continuation program reservation function of the television receiving set 200 in the above-mentioned image sound signal recording apparatus 100 which was made to carry out continuation reservation If it is at the termination event of a reservation program and the race card of next week is not acquired, since continuation reservation of the program will be interrupted That reservation is corrected, when a race card is unacquirable, this program of next week is reserved for the time being (this reservation is hereafter called temporary reservation) and a race card is able to be acquired according to the processing algorithm shown in drawing 3 . If the race card of next week cannot acquire by the time of the temporary reservation, it performs the content of the temporary reservation. If the race card of next week can acquire by the time of the temporary reservation, it will extract the broadcast schedule of the program of right next time by that cause, and will correct the content of temporary reservation. Moreover, when a next program does not exist in the acquired race card of next week, temporary reservation is canceled at the event.

[0054] That is, in the processing algorithm shown in drawing 3 , at step S301, if it judged whether the program by which continuation reservation was carried out was completed, it ended and it will not have progressed and ended to step S302, it progresses to step S306.

[0055] At step S302, if it judges whether the race card of next week has come to hand, and has received and will not have progressed and received to step S303, it progresses to step S304.

[0056] At step S303, temporary reservation of this program of next week is carried out, and it progresses to step S306.

[0057] At step S304, it judges whether the next time of the program exists in the race card of next week, and if it exists and does not progress and exist in step S305, it returns to step S301. That is, continuation reservation is ended, if the race card of

next week comes to hand and the next time of the program does not exist in the race card.

[0058] At step S305, the next time of the program is reserved and it returns to step S301. That is, it will be reserved, if the race card of next week comes to hand and the next time of the program exists in the race card. Thereby, continuation reservation continues.

[0059] At step S306, it judges whether there is any program by which temporary reservation was carried out, if it is, it will progress to step S307, and if there is nothing, it will return to step S301.

[0060] At step S307, if it judges whether the race card of next week came to hand, and has received and will not have progressed and received to step S308, it returns to step S301.

[0061] At step S308, if it judges whether the program which carried out temporary reservation exists in the race card of next week, and exists and does not progress and exist in step S309, it progresses to step S310.

[0062] At step S309, based on the right program information that the program by which temporary reservation was carried out can be acquired from a race card in this program of next week, it corrects to right reservation and returns to step S301.

[0063] That is, if the race card of next week is acquired and the next time of the program exists in the race card after carrying out temporary reservation, this will extract the broadcast schedule of the program of right next time, and the content of temporary reservation will be corrected. Thereby, continuation reservation continues.

[0064] At step S310, the program by which temporary reservation was carried out is eliminated and it returns to step S301. That is, continuation reservation is ended, if the race card of next week is acquired and the next time of the program does not exist in the race card, after carrying out temporary reservation.

[0065] Namely, by performing reservation processing according to this processing algorithm If the race card of next week is unacquirable by the time of temporary reservation, the content of the temporary reservation is performed and the race card of next week can be acquired by the time of the temporary reservation This extracts the broadcast schedule of the program of right next time, and when a next program does not exist in the race card of next week which corrected and acquired the content of temporary reservation, temporary reservation can be canceled at the event.

[0066] Although the gestalt of the operation explained above explained the case where a race card and the program which acquires weekly and carries out continuation reservation are broadcast weekly, if the relation that the broadcast period of the continuation program broadcast periodically or irregularly is below the period of the race card acquired at a time satisfies, it is realizable by the reservation processing to which continuation reservation of any periods followed the processing algorithm.

[0067]

[Effect of the Invention] In the video-signal recording apparatus concerning this invention, it hits recording on a record medium with a record means in the image sound signal of the television broadcasting received by the receiving means. By acquiring a race card for every fixed period with a race card acquisition means, and memorizing for the race card storage means According to the image transcription reservation setting-out information that it was inputted by the input means, program reservation is automatically carried out using the race card memorized by the above-mentioned race card storage means. It is based on the race card memorized by the current time information and the above-mentioned race card storage means which are given by the clock means. The above-mentioned receiving means and a record means can be controlled by the control means to extract the program by which image transcription reservation was carried out, and to record on the above-mentioned record medium, and image transcription reservation of the continuation program broadcast periodically or irregularly can be carried out easily.

[0068] With the video-signal recording device concerning this invention, when the image transcription based on image transcription reservation of a certain program is completed, continuation image transcription reservation can be automatically carried out in the continuation program broadcast periodically or irregularly by extracting the broadcast time of the next time of the program, and carrying out image transcription reservation of the program automatically from the new race card memorized by the above-mentioned race card storage means, for example.

[0069] Moreover, in the video-signal recording device concerning this invention, when performing image transcription reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means for example, continuation image transcription reservation can be continued by carrying out image transcription reservation of the program of the next week of the same time amount automatically by the same channel.

[0070] Moreover, when performing image transcription reservation of a certain program automatically and a new race card cannot be acquired with the above-mentioned race card acquisition means in the video-signal recording device concerning this invention, for example When the broadcast time of the next time of the program is predicted, temporary image transcription reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means, continuation image transcription reservation can be fulfilled from the content of right reservation by correcting the content of temporary image transcription reservation of the program to a right thing based on a new race card.

[0071] In a receiving means receiving and outputting the image sound signal of television broadcasting from an output means in the television receiving set concerning this invention Acquire a race card for every fixed period with a race card acquisition means, and it memorizes for the race card storage means. According to

the program reservation setting-out information that it was inputted by the input means, program reservation is automatically carried out using the race card memorized by the account race card storage means. Since the above-mentioned receiving means and an output means are controlled by the control means to extract and output the program by which program reservation was carried out based on the race card memorized by the current time information and the above-mentioned race card storage means which are given by the clock means Program reservation of the continuation program broadcast periodically or irregularly can be carried out easily.

[0072] In the television receiving set concerning this invention, when a certain program based on program reservation is completed, continuation program reservation of the continuation program can be automatically carried out for the continuation program broadcast periodically or irregularly by extracting the broadcast time of the next time of the program, and carrying out program reservation of the program automatically from the new race card memorized by the above-mentioned race card storage means, for example.

[0073] Moreover, in the television receiving set concerning this invention, when performing program reservation of a certain program automatically and the race card cannot be acquired with the above-mentioned race card acquisition means for example, continuation program reservation can be continued by carrying out program reservation of the program of the next week of the same time amount automatically by the same channel.

[0074] moreover, in the television receiving set concerning this invention For example, when performing program reservation of a certain program automatically and a new race card cannot be acquired with the above-mentioned race card acquisition means When the broadcast time of the next time of the program is predicted, temporary program reservation is performed and a new race card is acquired with the above-mentioned race card acquisition means, continuation program reservation can be fulfilled from the content of right reservation by correcting the content of temporary program reservation of the program to a right thing based on a new race card.

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## DESCRIPTION OF DRAWINGS

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[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing the configuration of the image sound signal recording apparatus concerning this invention.

[Drawing 2] It is the block diagram showing the configuration of the television receiving set concerning this invention.

[Drawing 3] It is the flow chart which shows the processing algorithm of the

reservation processing in the above-mentioned image sound signal recording apparatus and a television receiving set.

[Description of Notations]

100 Image Sound Signal Recording Apparatus, 101,201 Antenna, 102,202 Television-Broadcasting Receive Section, 103 Records Department, 104,204 Control Section, 105,205 Clock Section, 106,206 Input Section, 107,207 Race Card Acquisition Section, 108,208 Race Card Storage Section, 200 Television Receiving Set, 203 Output Section

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